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CHAPTER 1 - TRADING PARAMETERS

Authority

Trading of Rapeseed-Mustard seed futures may be conducted under such terms and conditions as specified in the Rules, Byelaws & Regulations and directions of the Exchange issued from time to time. A specimen of Rapeseed-Mustard seed futures contract specification is indicated in **Exhibit 1**.

Unit of Trading

The unit of trading shall be 10 MT. Bids and offers may be accepted in lots of 10 MT or multiples thereof.

Months Traded In

Trading in Rapeseed-Mustard seed futures is applicable to all contracts and may be conducted in the months as specified by the Exchange from time to time.

Tick Size

The tick size of the price of Rapeseed-Mustard seed shall be Re. 1

Basis Price

The basis price of Rapeseed-Mustard seed shall be Ex-warehouse Jaipur, exclusive of sales taxes/VAT.

Unit for Price Quotation

The unit of price quotation for Rapeseed-Mustard seed shall be in Rupees per Quintal. The basis for Rapeseed-Mustard seed traded as Rapeseed-Mustard seed is Ex-warehouse Jaipur, exclusive of sales taxes/VAT.

Hours of Trading

The hours of trading for futures in Rapeseed-Mustard seed shall be as follows:

- Mondays through Fridays - 10 a.m. to 05.00 p.m.
- Saturdays - 10 a.m. to 02.00 p.m.

Or as determined by the Exchange from time to time. All timings are as per Indian Standard Timings (IST)

Last Day of Trading

Last day of trading shall be 20th day of the delivery month, if 20th happens to be a holiday, Saturday, or a Sunday then the immediately preceding trading day of the Exchange.

Mark to Market

The outstanding positions in futures contract in Rapeseed-Mustard seed would be marked to market daily based on the Daily Settlement Price (DSP) as determined by the Exchange.

Position limits

Member-wise: 60,000 MT or 15% of Market open interest whichever is higher.

Client-wise: 20,000 MT.

The above limits will not apply to bona fide hedgers.

For bona fide hedgers, the Exchange will, on a case to case basis, decide the hedge limits. Please refer to Circular No. NCDEX/TRADING-100/2005/219 dated October 20, 2005.

For near month contracts The following limits would be applicable from 28 days prior to expiry date of a contract

Member: 18,000 MT or 15% of Market wide near month open position whichever is higher

Client: 6000 MT

Both position limits will be subject to NCDEX Regulations and directions from time to time. *(Applicable for all Rapeseed- Mustard Seed contracts combined together)*

Margin Requirements

NCDEX will use Value at Risk (VaR) based margin calculated at 99.95% confidence interval for one day time horizon. NCDEX reserves the right to change, reduce or levy any additional margins including any mark up margin.

Pre-Expiry Additional Margin

There will be an additional margin imposed for the last 5 trading days, including the expiry date of the Rapeseed-Mustard seed contract. The additional margin will be added to the normal exposure margin and will be increased by 3% everyday for the last 5 trading days of the contract.

Delivery Margins

In case of open positions materializing into physical delivery, delivery margins as may be determined by the Exchange from time to time will be charged. The delivery margins will be calculated based on the number of days required for completing the physical delivery settlement (the look-ahead period and the risks arising thereof).

Penalty for default

- Existing penalty = 3%
 - Out of 3%, 1% will be credited to the buyer's account.
 - 1.75% goes to the Investors Protection Fund and 0.25% would be retained by the Exchange.
- In addition to the initial penalty of 3%, seller will be charged the price differential of the average of top 3 spot prices polled from E+1 to E+5. 100% of this differential will be transferred to the buyer.

Arbitration

Disputes between the members of the Exchange inter-se and between members and constituents, arising out of or pertaining to trades done on NCDEX shall be settled through arbitration. The arbitration proceedings and appointment of arbitrators shall be as governed by the Bye-laws and Regulations of the Exchange.

CHAPTER 2 - DELIVERY PROCEDURES

Unit of Delivery

The unit of delivery for Rapeseed-Mustard seed shall be 10 MT.

Delivery Size

Delivery is to be offered and accepted in lots of 10 MT Gross or multiples thereof. A quantity variation of +/- 2% is permitted as per contract specification.

Delivery Requests

The procedure for Rapeseed-Mustard seed delivery is based on the contract specifications as per **Exhibit I**. All the open positions shall have to be compulsorily delivered either by giving delivery or taking delivery as the case may be. That is, **“upon expiry of the contracts, any seller with open position shall give delivery of the commodity. The corresponding buyer with open position as matched by the process put in place by the Exchange shall be bound to settle by taking physical delivery. In the event of default by seller to give delivery, such defaulting seller will be liable to penalty as may be prescribed by the Exchange from time to time”**. The penalty structure for failure to meet delivery obligations will be as per circular no. NCDEX/TRADING-086/2008/216 dated September 16, 2008.

The Buyers and the Sellers need to give their location preference through the front end of the trading terminal. If the Sellers fail to give the location preference then the allocation to the extent of his open position will be allocated to the base location.

Delivery Allocation

The Exchange would then compile delivery requests received from members on the last trading day, as specified in Chapter 1 above. The buyers / sellers who have to receive / give delivery would be notified on the same day after the close of trading hours. Delivery of Rapeseed-Mustard seed is to be accepted by buyers at the accredited warehouse where the seller affects delivery in accordance with the contract specifications.

Actual Delivery

Where Rapeseed-Mustard seed is sold for delivery in a specified month, the seller must have requisite electronic credit of such Rapeseed-Mustard seed holding in his Clearing Member's Pool Account before the scheduled date of pay in. On settlement the buyer's Clearing Member's Pool Account would be credited with the said delivery quantity on pay out. The Clearing Member is expected to transfer the same to the buyer's depository account. However, the buyer must take actual physical delivery of Rapeseed-Mustard seed before expiry of the validity date as indicated in the quality test report/ Assayer's Certificate of the Assayer or get the same revalidated.

Accredited Warehouse

NCDEX has accredited warehouses for receipt and delivery of Rapeseed-Mustard seed. Rapeseed-Mustard seed will only be received at and delivered from the NCDEX accredited warehouse. The details of the NCDEX accredited warehouses are as per **Exhibit 2**.

The Rapeseed-Mustard seed received at the NCDEX accredited warehouse will be tested and certified by NCDEX accredited Assayer before acceptance as good delivery in the warehouse. Likewise, Rapeseed-Mustard seed delivered to buyers will be from the accredited warehouse only.

Rapeseed-Mustard seed Product Note



Quality Standards

The contract quality for delivery of Rapeseed-Mustard seed futures contracts made under NCDEX Regulations shall be Rapeseed-Mustard seed conforming to the quality specification indicated in the contract. No lower grade/ quality shall be accepted in satisfaction of futures contracts for delivery except as and to the extent provided in the contract specifications. Delivery of higher grade would be accepted with premium.

Packaging

Rapeseed-Mustard seed should be delivered in 86 Kg. gross weight basis with a variation of +/- 2 % in new/ sound unmended A-Twill bags without any spillage

Standard Allowances

Standard allowance deducted per validation of quality on account of sampling and spillage will be as given in the table.

	Fresh Deposit	Revalidation	Remat
Standard Allowance	0.20%	Nil	Nil

Weight

The quantity of Rapeseed-Mustard seed received and/ or delivered at the NCDEX accredited warehouse would be determined/ calculated by the weighbridge/ weigh scale of the accredited warehouse and the quantity so determined would be binding on all parties. The weight of the bag will be 86 Kg.

Good/ Bad delivery Norms

Rapeseed-Mustard seed delivery into NCDEX accredited warehouse would constitute good delivery or bad delivery based on the good/ bad delivery norms as per **Exhibit 3**. The list contained in **Exhibit 3** is only illustrative and not exhaustive. NCDEX would from time to time review and update the good/ bad delivery norms retaining the trade/ industry practices.

Rapeseed-Mustard seed Sampling

The sampling will be done with 100% of Rapeseed-Mustard seed bags. Samples will be drawn from 3 places of each bag and a composite mixture of approx. 2 kgs will be made. This will be then divided into 4 parts

These samples will be distributed as under:

- One sample to Depositor
- One sample to Warehouse owner
- One sample for Analysis by assayer
- One sample for record with assayer

Accredited Assayer

NCDEX has empanelled Assayer for quality testing and certification of Rapeseed-Mustard seed received at the accredited warehouse. The quality testing and certification of Rapeseed-Mustard seed will be undertaken only by the empanelled Assayer as appointed by the Warehouse Service Provider. The assayer details of each warehouse are given in the **Exhibit 2** alongside the warehouses.

Rapeseed-Mustard seed Product Note



Testing Procedure

To test foreign matter and non edible seeds, physical tests are conducted. For FFA and Oil, test is done by NIR machine/Soxhlet's extraction apparatus. Moisture test is done by moisture meter/NIR/ Oven dry method.

Quality Testing Report/ Assayer Certificate

Testing and quality certificate issued by Assayer on the samples drawn from Rapeseed-Mustard seed delivered at accredited warehouse in Jaipur, Agra, Alwar, Bikaner, Hapur, Kota, Sri Ganganagar and at such other locations announced by the Exchange from time to time shall be acceptable and binding on all parties. Each delivery of Rapeseed-Mustard seed at the warehouse must be accompanied by a quality testing report/ certificate from NCDEX approved Assayer in the format indicated in **Exhibit 4**.

Validity period

The validity period for Rapeseed-Mustard is appended in the table.

Months of Deposit /Date of entry by warehouse in system(Jan - dec)	Expiry period from the date of Fresh Deposit (no. of months)	Validity period at the time of fresh deposit (no of months)	How many times revalidations allowed	Validity Period of first revalidation (no. of months)
January	1	1	0	0
February	6	6	0	0
March	6	6	0	0
April	6	6	0	0
May	6	6	0	0
June	6	6	0	0
July	6	6	0	0
August	6	6	0	0
September	5	5	0	0
October	4	4	0	0
November	3	3	0	0
December	2	2	0	0

Electronic transfer

Any buyer or seller receiving and or effecting Rapeseed-Mustard seed would have to open a depository account with an NCDEX empanelled Depository Participant (DP) to hold the Rapeseed-Mustard seed in electronic form. On settlement, the buyer's account with the DP would be credited with the quantity of Rapeseed-Mustard seed received and the corresponding seller's account would be debited. The Buyer wanting to take physical delivery of the Rapeseed-Mustard seed holding has to make a request in prescribed form to his DP with whom depository account has been opened. The DP would route the request to the warehouse for issue of the physical commodity i.e. Rapeseed-Mustard seed to the buyer and debit his account, thus reducing the electronic balance to the extent of Rapeseed-Mustard seed so rematerialized.

Rapeseed-Mustard seed Product Note



Charges

All charges and costs payable at the accredited warehouse towards delivery of Rapeseed-Mustard Seed including sampling, grading, weighing, handling charges, storage etc. from the date of receipt into accredited warehouse upto date of pay in & settlement shall be paid by the seller.

No refund for warehouse charges paid by the seller for full validity period shall be given to the seller or buyer for delivery earlier than the validity period.

All charges and costs associated & including storage, handling etc. after the pay out shall be borne by the buyer. Warehouse storage charges will be charged to the member/client by the respective Depository Participant.

The Assayer charges for testing and quality certification should be paid to the Assayer directly at the delivery location either by cash/ cheque/ demand draft.

Duties & levies

All duties, levies etc. up to the point of sale will have to be fully borne by the seller and shall be paid to the concerned authority. All related documentation should be completed before delivery of Rapeseed-Mustard seed into the NCDEX accredited warehouse.

Stamp Duty

Stamp duty is payable on all contract notes issued as may be applicable in the State from where the contract note is issued or State in which such contract note is received by the client.

Taxes

Service tax

Service tax will be payable by the members of Commodity Exchanges on the gross amount charged by them from their clients on account of dealing in commodities.

Sales Tax/ VAT

Local taxes/ VAT wherever applicable is to be paid by the seller to the sales tax/ VAT authorities on all contracts resulting in delivery. Accordingly the buyer will have to pay the taxes/ VAT to the seller at the time of settlement. Members and/ or their constituents requiring to receive or deliver Rapeseed-Mustard seed should register with the relevant tax/ VAT authorities of the place where the delivery is proposed to be received/ given. In the event of sales tax exemption, such exemption certificate should be submitted before settlement of the obligation. There will be no exemptions on account of resale or second sale in VAT regime.

Premium/ Discount

Premium & Discount on the Rapeseed-Mustard seed delivered will be provided by the Exchange on the basis of quality specifications:

The Exchange will communicate the premium/ discounts amount applicable. Such amount will be adjusted to the members account through the supplementary settlement.

Quality delivery with variation shall be acceptable with premium/ discount as under:

**Rapeseed-Mustard seed
Product Note**



The Ready Reconer is as given below:

Ready Reckoner for grades								
Moisture			Oil Content			Foreign Matter		
Upto 5.00%	=	1	Bet 37.00% to 37.25%	=	1	Upto 0.25%	=	1
Bet 5.01% - 5.50%	=	2	Bet 37.26% to 37.50%	=	2	Bet 0.26% - 0.75%	=	2
Bet 5.51% - 6.00%	=	3	Bet 37.51% to 37.75%	=	3	Bet 0.76% - 1.25%	=	3
Bet 6.01% - 6.50%	=	4	Bet 37.76% to 38.00%	=	4	Bet 1.26% - 2.00%	=	4
			Bet 38.01% to 38.25%	=	5			
			Bet 38.26% to 38.50%	=	6			
			Bet 38.51% to 38.75%	=	7			
			Bet 38.76% to 39.00%	=	8			
			Bet 39.01% to 39.25%	=	9			
			Bet 39.26% to 39.50%	=	10			
			Bet 39.51% to 39.75%	=	11			
			Bet 39.76% to 40.00%	=	12			
			Bet 40.01% to 40.25%	=	13			
			Bet 40.26% to 40.50%	=	14			
			Bet 40.51% to 40.75%	=	15			
			Bet 40.76% to 41.00%	=	16			
			Bet 41.01% to 41.25%	=	17			
			Bet 41.26% to 41.50%	=	18			
			Bet 41.51% to 41.75%	=	19			
			Bet 41.76% to 41.99%	=	20			
			At 42.00 %	=	21			
			Bet 42.01% to 42.25%	=	22			
			Bet 42.26% to 42.50%	=	23			
			Bet 42.51% to 42.75%	=	24			
			Bet 42.76% to 43.00%	=	25			
			Bet 43.01% to 43.25%	=	26			
			Bet 43.26% to 43.50%	=	27			

Ready Reckoner for grades								
Moisture			Oil Content			Foreign Matter		
1	=	0.00	1	=	-11.9	1	=	0.00
2	=	-0.50	2	=	-11.3	2	=	-0.50
3	=	-1.00	3	=	-10.7	3	=	-1.00
4	=	-1.50	4	=	-10.1	4	=	-1.75
			5	=	-9.52			
			6	=	-8.93			
			7	=	-8.33			
			8	=	-7.74			
			9	=	-7.14			
			10	=	-6.55			
			11	=	-5.95			
			12	=	-5.36			
			13	=	-4.76			
			14	=	-4.17			
			15	=	-3.57			
			16	=	-2.98			

The contents of this product note are subject to Rules, Byelaws and Regulations of NCDEX as in force from time to time and be read therewith.

**Rapeseed-Mustard seed
Product Note**



	17	=	-2.38
	18	=	-1.79
	19	=	-1.19
	20	=	-0.60
	21	=	0
	22	=	0.60
	23	=	1.19
	24	=	1.79
	25	=	2.38
	26	=	2.98
	27	=	3.57

Moisture	P/D	Foreign Matter	P/D	Oil Content	P/D	Grade	P/D Value
1	0.00	1	0.00	1	-11.90	RMSEED111	-11.90
1	0.00	1	0.00	2	-11.31	RMSEED112	-11.31
1	0.00	1	0.00	3	-10.71	RMSEED113	-10.71
1	0.00	1	0.00	4	-10.12	RMSEED114	-10.12
1	0.00	1	0.00	5	-9.52	RMSEED115	-9.52
1	0.00	1	0.00	6	-8.93	RMSEED116	-8.93
1	0.00	1	0.00	7	-8.33	RMSEED117	-8.33
1	0.00	1	0.00	8	-7.74	RMSEED118	-7.74
1	0.00	1	0.00	9	-7.14	RMSEED119	-7.14
1	0.00	1	0.00	10	-6.55	RMSEED1110	-6.55
1	0.00	1	0.00	11	-5.95	RMSEED1111	-5.95
1	0.00	1	0.00	12	-5.36	RMSEED1112	-5.36
1	0.00	1	0.00	13	-4.76	RMSEED1113	-4.76
1	0.00	1	0.00	14	-4.17	RMSEED1114	-4.17
1	0.00	1	0.00	15	-3.57	RMSEED1115	-3.57
1	0.00	1	0.00	16	-2.98	RMSEED1116	-2.98
1	0.00	1	0.00	17	-2.38	RMSEED1117	-2.38
1	0.00	1	0.00	18	-1.79	RMSEED1118	-1.79
1	0.00	1	0.00	19	-1.19	RMSEED1119	-1.19
1	0.00	1	0.00	20	-0.60	RMSEED1120	-0.60
1	0.00	1	0.00	21	0.00	RMSEED1121	0.00
1	0.00	1	0.00	22	0.60	RMSEED1122	0.60
1	0.00	1	0.00	23	1.19	RMSEED1123	1.19
1	0.00	1	0.00	24	1.79	RMSEED1124	1.79
1	0.00	1	0.00	25	2.38	RMSEED1125	2.38
1	0.00	1	0.00	26	2.98	RMSEED1126	2.98
1	0.00	1	0.00	27	3.57	RMSEED1127	3.57
1	0.00	2	-0.50	1	-11.90	RMSEED121	-12.40
1	0.00	2	-0.50	2	-11.31	RMSEED122	-11.81
1	0.00	2	-0.50	3	-10.71	RMSEED123	-11.21
1	0.00	2	-0.50	4	-10.12	RMSEED124	-10.62
1	0.00	2	-0.50	5	-9.52	RMSEED125	-10.02
1	0.00	2	-0.50	6	-8.93	RMSEED126	-9.43
1	0.00	2	-0.50	7	-8.33	RMSEED127	-8.83

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**Rapeseed-Mustard seed
Product Note**



1	0.00	2	-0.50	8	-7.74	RMSEED128	-8.24
1	0.00	2	-0.50	9	-7.14	RMSEED129	-7.64
1	0.00	2	-0.50	10	-6.55	RMSEED1210	-7.05
1	0.00	2	-0.50	11	-5.95	RMSEED1211	-6.45
1	0.00	2	-0.50	12	-5.36	RMSEED1212	-5.86
1	0.00	2	-0.50	13	-4.76	RMSEED1213	-5.26
1	0.00	2	-0.50	14	-4.17	RMSEED1214	-4.67
1	0.00	2	-0.50	15	-3.57	RMSEED1215	-4.07
1	0.00	2	-0.50	16	-2.98	RMSEED1216	-3.48
1	0.00	2	-0.50	17	-2.38	RMSEED1217	-2.88
1	0.00	2	-0.50	18	-1.79	RMSEED1218	-2.29
1	0.00	2	-0.50	19	-1.19	RMSEED1219	-1.69
1	0.00	2	-0.50	20	-0.60	RMSEED1220	-1.10
1	0.00	2	-0.50	21	0.00	RMSEED1221	-0.50
1	0.00	2	-0.50	22	0.60	RMSEED1222	0.10
1	0.00	2	-0.50	23	1.19	RMSEED1223	0.69
1	0.00	2	-0.50	24	1.79	RMSEED1224	1.29
1	0.00	2	-0.50	25	2.38	RMSEED1225	1.88
1	0.00	2	-0.50	26	2.98	RMSEED1226	2.48
1	0.00	2	-0.50	27	3.57	RMSEED1227	3.07
1	0.00	3	-1.00	1	-11.90	RMSEED131	-12.90
1	0.00	3	-1.00	2	-11.31	RMSEED132	-12.31
1	0.00	3	-1.00	3	-10.71	RMSEED133	-11.71
1	0.00	3	-1.00	4	-10.12	RMSEED134	-11.12
1	0.00	3	-1.00	5	-9.52	RMSEED135	-10.52
1	0.00	3	-1.00	6	-8.93	RMSEED136	-9.93
1	0.00	3	-1.00	7	-8.33	RMSEED137	-9.33
1	0.00	3	-1.00	8	-7.74	RMSEED138	-8.74
1	0.00	3	-1.00	9	-7.14	RMSEED139	-8.14
1	0.00	3	-1.00	10	-6.55	RMSEED1310	-7.55
1	0.00	3	-1.00	11	-5.95	RMSEED1311	-6.95
1	0.00	3	-1.00	12	-5.36	RMSEED1312	-6.36
1	0.00	3	-1.00	13	-4.76	RMSEED1313	-5.76
1	0.00	3	-1.00	14	-4.17	RMSEED1314	-5.17
1	0.00	3	-1.00	15	-3.57	RMSEED1315	-4.57
1	0.00	3	-1.00	16	-2.98	RMSEED1316	-3.98
1	0.00	3	-1.00	17	-2.38	RMSEED1317	-3.38
1	0.00	3	-1.00	18	-1.79	RMSEED1318	-2.79
1	0.00	3	-1.00	19	-1.19	RMSEED1319	-2.19
1	0.00	3	-1.00	20	-0.60	RMSEED1320	-1.60
1	0.00	3	-1.00	21	0.00	RMSEED1321	-1.00
1	0.00	3	-1.00	22	0.60	RMSEED1322	-0.40
1	0.00	3	-1.00	23	1.19	RMSEED1323	0.19
1	0.00	3	-1.00	24	1.79	RMSEED1324	0.79
1	0.00	3	-1.00	25	2.38	RMSEED1325	1.38
1	0.00	3	-1.00	26	2.98	RMSEED1326	1.98
1	0.00	3	-1.00	27	3.57	RMSEED1327	2.57
1	0.00	4	-1.75	1	-11.90	RMSEED141	-13.65
1	0.00	4	-1.75	2	-11.31	RMSEED142	-13.06
1	0.00	4	-1.75	3	-10.71	RMSEED143	-12.46

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**Rapeseed-Mustard seed
Product Note**



1	0.00	4	-1.75	4	-10.12	RMSEED144	-11.87
1	0.00	4	-1.75	5	-9.52	RMSEED145	-11.27
1	0.00	4	-1.75	6	-8.93	RMSEED146	-10.68
1	0.00	4	-1.75	7	-8.33	RMSEED147	-10.08
1	0.00	4	-1.75	8	-7.74	RMSEED148	-9.49
1	0.00	4	-1.75	9	-7.14	RMSEED149	-8.89
1	0.00	4	-1.75	10	-6.55	RMSEED1410	-8.30
1	0.00	4	-1.75	11	-5.95	RMSEED1411	-7.70
1	0.00	4	-1.75	12	-5.36	RMSEED1412	-7.11
1	0.00	4	-1.75	13	-4.76	RMSEED1413	-6.51
1	0.00	4	-1.75	14	-4.17	RMSEED1414	-5.92
1	0.00	4	-1.75	15	-3.57	RMSEED1415	-5.32
1	0.00	4	-1.75	16	-2.98	RMSEED1416	-4.73
1	0.00	4	-1.75	17	-2.38	RMSEED1417	-4.13
1	0.00	4	-1.75	18	-1.79	RMSEED1418	-3.54
1	0.00	4	-1.75	19	-1.19	RMSEED1419	-2.94
1	0.00	4	-1.75	20	-0.60	RMSEED1420	-2.35
1	0.00	4	-1.75	21	0.00	RMSEED1421	-1.75
1	0.00	4	-1.75	22	0.60	RMSEED1422	-1.15
1	0.00	4	-1.75	23	1.19	RMSEED1423	-0.56
1	0.00	4	-1.75	24	1.79	RMSEED1424	0.04
1	0.00	4	-1.75	25	2.38	RMSEED1425	0.63
1	0.00	4	-1.75	26	2.98	RMSEED1426	1.23
1	0.00	4	-1.75	27	3.57	RMSEED1427	1.82
2	-0.50	1	0.00	1	-11.90	RMSEED211	-12.40
2	-0.50	1	0.00	2	-11.31	RMSEED212	-11.81
2	-0.50	1	0.00	3	-10.71	RMSEED213	-11.21
2	-0.50	1	0.00	4	-10.12	RMSEED214	-10.62
2	-0.50	1	0.00	5	-9.52	RMSEED215	-10.02
2	-0.50	1	0.00	6	-8.93	RMSEED216	-9.43
2	-0.50	1	0.00	7	-8.33	RMSEED217	-8.83
2	-0.50	1	0.00	8	-7.74	RMSEED218	-8.24
2	-0.50	1	0.00	9	-7.14	RMSEED219	-7.64
2	-0.50	1	0.00	10	-6.55	RMSEED2110	-7.05
2	-0.50	1	0.00	11	-5.95	RMSEED2111	-6.45
2	-0.50	1	0.00	12	-5.36	RMSEED2112	-5.86
2	-0.50	1	0.00	13	-4.76	RMSEED2113	-5.26
2	-0.50	1	0.00	14	-4.17	RMSEED2114	-4.67
2	-0.50	1	0.00	15	-3.57	RMSEED2115	-4.07
2	-0.50	1	0.00	16	-2.98	RMSEED2116	-3.48
2	-0.50	1	0.00	17	-2.38	RMSEED2117	-2.88
2	-0.50	1	0.00	18	-1.79	RMSEED2118	-2.29
2	-0.50	1	0.00	19	-1.19	RMSEED2119	-1.69
2	-0.50	1	0.00	20	-0.60	RMSEED2120	-1.10
2	-0.50	1	0.00	21	0.00	RMSEED2121	-0.50
2	-0.50	1	0.00	22	0.60	RMSEED2122	0.10
2	-0.50	1	0.00	23	1.19	RMSEED2123	0.69
2	-0.50	1	0.00	24	1.79	RMSEED2124	1.29
2	-0.50	1	0.00	25	2.38	RMSEED2125	1.88
2	-0.50	1	0.00	26	2.98	RMSEED2126	2.48

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2	-0.50	1	0.00	27	3.57	RMSEED2127	3.07
2	-0.50	2	-0.50	1	-11.90	RMSEED221	-12.90
2	-0.50	2	-0.50	2	-11.31	RMSEED222	-12.31
2	-0.50	2	-0.50	3	-10.71	RMSEED223	-11.71
2	-0.50	2	-0.50	4	-10.12	RMSEED224	-11.12
2	-0.50	2	-0.50	5	-9.52	RMSEED225	-10.52
2	-0.50	2	-0.50	6	-8.93	RMSEED226	-9.93
2	-0.50	2	-0.50	7	-8.33	RMSEED227	-9.33
2	-0.50	2	-0.50	8	-7.74	RMSEED228	-8.74
2	-0.50	2	-0.50	9	-7.14	RMSEED229	-8.14
2	-0.50	2	-0.50	10	-6.55	RMSEED2210	-7.55
2	-0.50	2	-0.50	11	-5.95	RMSEED2211	-6.95
2	-0.50	2	-0.50	12	-5.36	RMSEED2212	-6.36
2	-0.50	2	-0.50	13	-4.76	RMSEED2213	-5.76
2	-0.50	2	-0.50	14	-4.17	RMSEED2214	-5.17
2	-0.50	2	-0.50	15	-3.57	RMSEED2215	-4.57
2	-0.50	2	-0.50	16	-2.98	RMSEED2216	-3.98
2	-0.50	2	-0.50	17	-2.38	RMSEED2217	-3.38
2	-0.50	2	-0.50	18	-1.79	RMSEED2218	-2.79
2	-0.50	2	-0.50	19	-1.19	RMSEED2219	-2.19
2	-0.50	2	-0.50	20	-0.60	RMSEED2220	-1.60
2	-0.50	2	-0.50	21	0.00	RMSEED2221	-1.00
2	-0.50	2	-0.50	22	0.60	RMSEED2222	-0.40
2	-0.50	2	-0.50	23	1.19	RMSEED2223	0.19
2	-0.50	2	-0.50	24	1.79	RMSEED2224	0.79
2	-0.50	2	-0.50	25	2.38	RMSEED2225	1.38
2	-0.50	2	-0.50	26	2.98	RMSEED2226	1.98
2	-0.50	2	-0.50	27	3.57	RMSEED2227	2.57
2	-0.50	3	-1.00	1	-11.90	RMSEED231	-13.40
2	-0.50	3	-1.00	2	-11.31	RMSEED232	-12.81
2	-0.50	3	-1.00	3	-10.71	RMSEED233	-12.21
2	-0.50	3	-1.00	4	-10.12	RMSEED234	-11.62
2	-0.50	3	-1.00	5	-9.52	RMSEED235	-11.02
2	-0.50	3	-1.00	6	-8.93	RMSEED236	-10.43
2	-0.50	3	-1.00	7	-8.33	RMSEED237	-9.83
2	-0.50	3	-1.00	8	-7.74	RMSEED238	-9.24
2	-0.50	3	-1.00	9	-7.14	RMSEED239	-8.64
2	-0.50	3	-1.00	10	-6.55	RMSEED2310	-8.05
2	-0.50	3	-1.00	11	-5.95	RMSEED2311	-7.45
2	-0.50	3	-1.00	12	-5.36	RMSEED2312	-6.86
2	-0.50	3	-1.00	13	-4.76	RMSEED2313	-6.26
2	-0.50	3	-1.00	14	-4.17	RMSEED2314	-5.67
2	-0.50	3	-1.00	15	-3.57	RMSEED2315	-5.07
2	-0.50	3	-1.00	16	-2.98	RMSEED2316	-4.48
2	-0.50	3	-1.00	17	-2.38	RMSEED2317	-3.88
2	-0.50	3	-1.00	18	-1.79	RMSEED2318	-3.29
2	-0.50	3	-1.00	19	-1.19	RMSEED2319	-2.69
2	-0.50	3	-1.00	20	-0.60	RMSEED2320	-2.10
2	-0.50	3	-1.00	21	0.00	RMSEED2321	-1.50
2	-0.50	3	-1.00	22	0.60	RMSEED2322	-0.90

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2	-0.50	3	-1.00	23	1.19	RMSEED2323	-0.31
2	-0.50	3	-1.00	24	1.79	RMSEED2324	0.29
2	-0.50	3	-1.00	25	2.38	RMSEED2325	0.88
2	-0.50	3	-1.00	26	2.98	RMSEED2326	1.48
2	-0.50	3	-1.00	27	3.57	RMSEED2327	2.07
2	-0.50	4	-1.75	1	-11.90	RMSEED241	-14.15
2	-0.50	4	-1.75	2	-11.31	RMSEED242	-13.56
2	-0.50	4	-1.75	3	-10.71	RMSEED243	-12.96
2	-0.50	4	-1.75	4	-10.12	RMSEED244	-12.37
2	-0.50	4	-1.75	5	-9.52	RMSEED245	-11.77
2	-0.50	4	-1.75	6	-8.93	RMSEED246	-11.18
2	-0.50	4	-1.75	7	-8.33	RMSEED247	-10.58
2	-0.50	4	-1.75	8	-7.74	RMSEED248	-9.99
2	-0.50	4	-1.75	9	-7.14	RMSEED249	-9.39
2	-0.50	4	-1.75	10	-6.55	RMSEED2410	-8.80
2	-0.50	4	-1.75	11	-5.95	RMSEED2411	-8.20
2	-0.50	4	-1.75	12	-5.36	RMSEED2412	-7.61
2	-0.50	4	-1.75	13	-4.76	RMSEED2413	-7.01
2	-0.50	4	-1.75	14	-4.17	RMSEED2414	-6.42
2	-0.50	4	-1.75	15	-3.57	RMSEED2415	-5.82
2	-0.50	4	-1.75	16	-2.98	RMSEED2416	-5.23
2	-0.50	4	-1.75	17	-2.38	RMSEED2417	-4.63
2	-0.50	4	-1.75	18	-1.79	RMSEED2418	-4.04
2	-0.50	4	-1.75	19	-1.19	RMSEED2419	-3.44
2	-0.50	4	-1.75	20	-0.60	RMSEED2420	-2.85
2	-0.50	4	-1.75	21	0.00	RMSEED2421	-2.25
2	-0.50	4	-1.75	22	0.60	RMSEED2422	-1.65
2	-0.50	4	-1.75	23	1.19	RMSEED2423	-1.06
2	-0.50	4	-1.75	24	1.79	RMSEED2424	-0.46
2	-0.50	4	-1.75	25	2.38	RMSEED2425	0.13
2	-0.50	4	-1.75	26	2.98	RMSEED2426	0.73
2	-0.50	4	-1.75	27	3.57	RMSEED2427	1.32
3	-1.00	1	0.00	1	-11.90	RMSEED311	-12.90
3	-1.00	1	0.00	2	-11.31	RMSEED312	-12.31
3	-1.00	1	0.00	3	-10.71	RMSEED313	-11.71
3	-1.00	1	0.00	4	-10.12	RMSEED314	-11.12
3	-1.00	1	0.00	5	-9.52	RMSEED315	-10.52
3	-1.00	1	0.00	6	-8.93	RMSEED316	-9.93
3	-1.00	1	0.00	7	-8.33	RMSEED317	-9.33
3	-1.00	1	0.00	8	-7.74	RMSEED318	-8.74
3	-1.00	1	0.00	9	-7.14	RMSEED319	-8.14
3	-1.00	1	0.00	10	-6.55	RMSEED3110	-7.55
3	-1.00	1	0.00	11	-5.95	RMSEED3111	-6.95
3	-1.00	1	0.00	12	-5.36	RMSEED3112	-6.36
3	-1.00	1	0.00	13	-4.76	RMSEED3113	-5.76
3	-1.00	1	0.00	14	-4.17	RMSEED3114	-5.17
3	-1.00	1	0.00	15	-3.57	RMSEED3115	-4.57
3	-1.00	1	0.00	16	-2.98	RMSEED3116	-3.98
3	-1.00	1	0.00	17	-2.38	RMSEED3117	-3.38
3	-1.00	1	0.00	18	-1.79	RMSEED3118	-2.79

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3	-1.00	1	0.00	19	-1.19	RMSEED3119	-2.19
3	-1.00	1	0.00	20	-0.60	RMSEED3120	-1.60
3	-1.00	1	0.00	21	0.00	RMSEED3121	-1.00
3	-1.00	1	0.00	22	0.60	RMSEED3122	-0.40
3	-1.00	1	0.00	23	1.19	RMSEED3123	0.19
3	-1.00	1	0.00	24	1.79	RMSEED3124	0.79
3	-1.00	1	0.00	25	2.38	RMSEED3125	1.38
3	-1.00	1	0.00	26	2.98	RMSEED3126	1.98
3	-1.00	1	0.00	27	3.57	RMSEED3127	2.57
3	-1.00	2	-0.50	1	-11.90	RMSEED321	-13.40
3	-1.00	2	-0.50	2	-11.31	RMSEED322	-12.81
3	-1.00	2	-0.50	3	-10.71	RMSEED323	-12.21
3	-1.00	2	-0.50	4	-10.12	RMSEED324	-11.62
3	-1.00	2	-0.50	5	-9.52	RMSEED325	-11.02
3	-1.00	2	-0.50	6	-8.93	RMSEED326	-10.43
3	-1.00	2	-0.50	7	-8.33	RMSEED327	-9.83
3	-1.00	2	-0.50	8	-7.74	RMSEED328	-9.24
3	-1.00	2	-0.50	9	-7.14	RMSEED329	-8.64
3	-1.00	2	-0.50	10	-6.55	RMSEED3210	-8.05
3	-1.00	2	-0.50	11	-5.95	RMSEED3211	-7.45
3	-1.00	2	-0.50	12	-5.36	RMSEED3212	-6.86
3	-1.00	2	-0.50	13	-4.76	RMSEED3213	-6.26
3	-1.00	2	-0.50	14	-4.17	RMSEED3214	-5.67
3	-1.00	2	-0.50	15	-3.57	RMSEED3215	-5.07
3	-1.00	2	-0.50	16	-2.98	RMSEED3216	-4.48
3	-1.00	2	-0.50	17	-2.38	RMSEED3217	-3.88
3	-1.00	2	-0.50	18	-1.79	RMSEED3218	-3.29
3	-1.00	2	-0.50	19	-1.19	RMSEED3219	-2.69
3	-1.00	2	-0.50	20	-0.60	RMSEED3220	-2.10
3	-1.00	2	-0.50	21	0.00	RMSEED3221	-1.50
3	-1.00	2	-0.50	22	0.60	RMSEED3222	-0.90
3	-1.00	2	-0.50	23	1.19	RMSEED3223	-0.31
3	-1.00	2	-0.50	24	1.79	RMSEED3224	0.29
3	-1.00	2	-0.50	25	2.38	RMSEED3225	0.88
3	-1.00	2	-0.50	26	2.98	RMSEED3226	1.48
3	-1.00	2	-0.50	27	3.57	RMSEED3227	2.07
3	-1.00	3	-1.00	1	-11.90	RMSEED331	-13.90
3	-1.00	3	-1.00	2	-11.31	RMSEED332	-13.31
3	-1.00	3	-1.00	3	-10.71	RMSEED333	-12.71
3	-1.00	3	-1.00	4	-10.12	RMSEED334	-12.12
3	-1.00	3	-1.00	5	-9.52	RMSEED335	-11.52
3	-1.00	3	-1.00	6	-8.93	RMSEED336	-10.93
3	-1.00	3	-1.00	7	-8.33	RMSEED337	-10.33
3	-1.00	3	-1.00	8	-7.74	RMSEED338	-9.74
3	-1.00	3	-1.00	9	-7.14	RMSEED339	-9.14
3	-1.00	3	-1.00	10	-6.55	RMSEED3310	-8.55
3	-1.00	3	-1.00	11	-5.95	RMSEED3311	-7.95
3	-1.00	3	-1.00	12	-5.36	RMSEED3312	-7.36
3	-1.00	3	-1.00	13	-4.76	RMSEED3313	-6.76
3	-1.00	3	-1.00	14	-4.17	RMSEED3314	-6.17

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3	-1.00	3	-1.00	15	-3.57	RMSEED3315	-5.57
3	-1.00	3	-1.00	16	-2.98	RMSEED3316	-4.98
3	-1.00	3	-1.00	17	-2.38	RMSEED3317	-4.38
3	-1.00	3	-1.00	18	-1.79	RMSEED3318	-3.79
3	-1.00	3	-1.00	19	-1.19	RMSEED3319	-3.19
3	-1.00	3	-1.00	20	-0.60	RMSEED3320	-2.60
3	-1.00	3	-1.00	21	0.00	RMSEED3321	-2.00
3	-1.00	3	-1.00	22	0.60	RMSEED3322	-1.40
3	-1.00	3	-1.00	23	1.19	RMSEED3323	-0.81
3	-1.00	3	-1.00	24	1.79	RMSEED3324	-0.21
3	-1.00	3	-1.00	25	2.38	RMSEED3325	0.38
3	-1.00	3	-1.00	26	2.98	RMSEED3326	0.98
3	-1.00	3	-1.00	27	3.57	RMSEED3327	1.57
3	-1.00	4	-1.75	1	-11.90	RMSEED341	-14.65
3	-1.00	4	-1.75	2	-11.31	RMSEED342	-14.06
3	-1.00	4	-1.75	3	-10.71	RMSEED343	-13.46
3	-1.00	4	-1.75	4	-10.12	RMSEED344	-12.87
3	-1.00	4	-1.75	5	-9.52	RMSEED345	-12.27
3	-1.00	4	-1.75	6	-8.93	RMSEED346	-11.68
3	-1.00	4	-1.75	7	-8.33	RMSEED347	-11.08
3	-1.00	4	-1.75	8	-7.74	RMSEED348	-10.49
3	-1.00	4	-1.75	9	-7.14	RMSEED349	-9.89
3	-1.00	4	-1.75	10	-6.55	RMSEED3410	-9.30
3	-1.00	4	-1.75	11	-5.95	RMSEED3411	-8.70
3	-1.00	4	-1.75	12	-5.36	RMSEED3412	-8.11
3	-1.00	4	-1.75	13	-4.76	RMSEED3413	-7.51
3	-1.00	4	-1.75	14	-4.17	RMSEED3414	-6.92
3	-1.00	4	-1.75	15	-3.57	RMSEED3415	-6.32
3	-1.00	4	-1.75	16	-2.98	RMSEED3416	-5.73
3	-1.00	4	-1.75	17	-2.38	RMSEED3417	-5.13
3	-1.00	4	-1.75	18	-1.79	RMSEED3418	-4.54
3	-1.00	4	-1.75	19	-1.19	RMSEED3419	-3.94
3	-1.00	4	-1.75	20	-0.60	RMSEED3420	-3.35
3	-1.00	4	-1.75	21	0.00	RMSEED3421	-2.75
3	-1.00	4	-1.75	22	0.60	RMSEED3422	-2.15
3	-1.00	4	-1.75	23	1.19	RMSEED3423	-1.56
3	-1.00	4	-1.75	24	1.79	RMSEED3424	-0.96
3	-1.00	4	-1.75	25	2.38	RMSEED3425	-0.37
3	-1.00	4	-1.75	26	2.98	RMSEED3426	0.23
3	-1.00	4	-1.75	27	3.57	RMSEED3427	0.82
4	-1.50	1	0.00	1	-11.90	RMSEED411	-13.40
4	-1.50	1	0.00	2	-11.31	RMSEED412	-12.81
4	-1.50	1	0.00	3	-10.71	RMSEED413	-12.21
4	-1.50	1	0.00	4	-10.12	RMSEED414	-11.62
4	-1.50	1	0.00	5	-9.52	RMSEED415	-11.02
4	-1.50	1	0.00	6	-8.93	RMSEED416	-10.43
4	-1.50	1	0.00	7	-8.33	RMSEED417	-9.83
4	-1.50	1	0.00	8	-7.74	RMSEED418	-9.24
4	-1.50	1	0.00	9	-7.14	RMSEED419	-8.64
4	-1.50	1	0.00	10	-6.55	RMSEED4110	-8.05

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4	-1.50	1	0.00	11	-5.95	RMSEED4111	-7.45
4	-1.50	1	0.00	12	-5.36	RMSEED4112	-6.86
4	-1.50	1	0.00	13	-4.76	RMSEED4113	-6.26
4	-1.50	1	0.00	14	-4.17	RMSEED4114	-5.67
4	-1.50	1	0.00	15	-3.57	RMSEED4115	-5.07
4	-1.50	1	0.00	16	-2.98	RMSEED4116	-4.48
4	-1.50	1	0.00	17	-2.38	RMSEED4117	-3.88
4	-1.50	1	0.00	18	-1.79	RMSEED4118	-3.29
4	-1.50	1	0.00	19	-1.19	RMSEED4119	-2.69
4	-1.50	1	0.00	20	-0.60	RMSEED4120	-2.10
4	-1.50	1	0.00	21	0.00	RMSEED4121	-1.50
4	-1.50	1	0.00	22	0.60	RMSEED4122	-0.90
4	-1.50	1	0.00	23	1.19	RMSEED4123	-0.31
4	-1.50	1	0.00	24	1.79	RMSEED4124	0.29
4	-1.50	1	0.00	25	2.38	RMSEED4125	0.88
4	-1.50	1	0.00	26	2.98	RMSEED4126	1.48
4	-1.50	1	0.00	27	3.57	RMSEED4127	2.07
4	-1.50	2	-0.50	1	-11.90	RMSEED421	-13.90
4	-1.50	2	-0.50	2	-11.31	RMSEED422	-13.31
4	-1.50	2	-0.50	3	-10.71	RMSEED423	-12.71
4	-1.50	2	-0.50	4	-10.12	RMSEED424	-12.12
4	-1.50	2	-0.50	5	-9.52	RMSEED425	-11.52
4	-1.50	2	-0.50	6	-8.93	RMSEED426	-10.93
4	-1.50	2	-0.50	7	-8.33	RMSEED427	-10.33
4	-1.50	2	-0.50	8	-7.74	RMSEED428	-9.74
4	-1.50	2	-0.50	9	-7.14	RMSEED429	-9.14
4	-1.50	2	-0.50	10	-6.55	RMSEED4210	-8.55
4	-1.50	2	-0.50	11	-5.95	RMSEED4211	-7.95
4	-1.50	2	-0.50	12	-5.36	RMSEED4212	-7.36
4	-1.50	2	-0.50	13	-4.76	RMSEED4213	-6.76
4	-1.50	2	-0.50	14	-4.17	RMSEED4214	-6.17
4	-1.50	2	-0.50	15	-3.57	RMSEED4215	-5.57
4	-1.50	2	-0.50	16	-2.98	RMSEED4216	-4.98
4	-1.50	2	-0.50	17	-2.38	RMSEED4217	-4.38
4	-1.50	2	-0.50	18	-1.79	RMSEED4218	-3.79
4	-1.50	2	-0.50	19	-1.19	RMSEED4219	-3.19
4	-1.50	2	-0.50	20	-0.60	RMSEED4220	-2.60
4	-1.50	2	-0.50	21	0.00	RMSEED4221	-2.00
4	-1.50	2	-0.50	22	0.60	RMSEED4222	-1.40
4	-1.50	2	-0.50	23	1.19	RMSEED4223	-0.81
4	-1.50	2	-0.50	24	1.79	RMSEED4224	-0.21
4	-1.50	2	-0.50	25	2.38	RMSEED4225	0.38
4	-1.50	2	-0.50	26	2.98	RMSEED4226	0.98
4	-1.50	2	-0.50	27	3.57	RMSEED4227	1.57
4	-1.50	3	-1.00	1	-11.90	RMSEED431	-14.40
4	-1.50	3	-1.00	2	-11.31	RMSEED432	-13.81
4	-1.50	3	-1.00	3	-10.71	RMSEED433	-13.21
4	-1.50	3	-1.00	4	-10.12	RMSEED434	-12.62
4	-1.50	3	-1.00	5	-9.52	RMSEED435	-12.02
4	-1.50	3	-1.00	6	-8.93	RMSEED436	-11.43

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4	-1.50	3	-1.00	7	-8.33	RMSEED437	-10.83
4	-1.50	3	-1.00	8	-7.74	RMSEED438	-10.24
4	-1.50	3	-1.00	9	-7.14	RMSEED439	-9.64
4	-1.50	3	-1.00	10	-6.55	RMSEED4310	-9.05
4	-1.50	3	-1.00	11	-5.95	RMSEED4311	-8.45
4	-1.50	3	-1.00	12	-5.36	RMSEED4312	-7.86
4	-1.50	3	-1.00	13	-4.76	RMSEED4313	-7.26
4	-1.50	3	-1.00	14	-4.17	RMSEED4314	-6.67
4	-1.50	3	-1.00	15	-3.57	RMSEED4315	-6.07
4	-1.50	3	-1.00	16	-2.98	RMSEED4316	-5.48
4	-1.50	3	-1.00	17	-2.38	RMSEED4317	-4.88
4	-1.50	3	-1.00	18	-1.79	RMSEED4318	-4.29
4	-1.50	3	-1.00	19	-1.19	RMSEED4319	-3.69
4	-1.50	3	-1.00	20	-0.60	RMSEED4320	-3.10
4	-1.50	3	-1.00	21	0.00	RMSEED4321	-2.50
4	-1.50	3	-1.00	22	0.60	RMSEED4322	-1.90
4	-1.50	3	-1.00	23	1.19	RMSEED4323	-1.31
4	-1.50	3	-1.00	24	1.79	RMSEED4324	-0.71
4	-1.50	3	-1.00	25	2.38	RMSEED4325	-0.12
4	-1.50	3	-1.00	26	2.98	RMSEED4326	0.48
4	-1.50	3	-1.00	27	3.57	RMSEED4327	1.07
4	-1.50	4	-1.75	1	-11.90	RMSEED441	-15.15
4	-1.50	4	-1.75	2	-11.31	RMSEED442	-14.56
4	-1.50	4	-1.75	3	-10.71	RMSEED443	-13.96
4	-1.50	4	-1.75	4	-10.12	RMSEED444	-13.37
4	-1.50	4	-1.75	5	-9.52	RMSEED445	-12.77
4	-1.50	4	-1.75	6	-8.93	RMSEED446	-12.18
4	-1.50	4	-1.75	7	-8.33	RMSEED447	-11.58
4	-1.50	4	-1.75	8	-7.74	RMSEED448	-10.99
4	-1.50	4	-1.75	9	-7.14	RMSEED449	-10.39
4	-1.50	4	-1.75	10	-6.55	RMSEED4410	-9.80
4	-1.50	4	-1.75	11	-5.95	RMSEED4411	-9.20
4	-1.50	4	-1.75	12	-5.36	RMSEED4412	-8.61
4	-1.50	4	-1.75	13	-4.76	RMSEED4413	-8.01
4	-1.50	4	-1.75	14	-4.17	RMSEED4414	-7.42
4	-1.50	4	-1.75	15	-3.57	RMSEED4415	-6.82
4	-1.50	4	-1.75	16	-2.98	RMSEED4416	-6.23
4	-1.50	4	-1.75	17	-2.38	RMSEED4417	-5.63
4	-1.50	4	-1.75	18	-1.79	RMSEED4418	-5.04
4	-1.50	4	-1.75	19	-1.19	RMSEED4419	-4.44
4	-1.50	4	-1.75	20	-0.60	RMSEED4420	-3.85
4	-1.50	4	-1.75	21	0.00	RMSEED4421	-3.25
4	-1.50	4	-1.75	22	0.60	RMSEED4422	-2.65
4	-1.50	4	-1.75	23	1.19	RMSEED4423	-2.06
4	-1.50	4	-1.75	24	1.79	RMSEED4424	-1.46
4	-1.50	4	-1.75	25	2.38	RMSEED4425	-0.87
4	-1.50	4	-1.75	26	2.98	RMSEED4426	-0.27
4	-1.50	4	-1.75	27	3.57	RMSEED4427	0.32

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CHAPTER 3 - CLEARING AND SETTLEMENT

Daily Settlement

All open positions of a futures contract would be settled daily based on the Daily Settlement Price (DSP).

Daily Settlement Prices

The Daily Settlement Price (DSP) will be as disseminated by the Exchange at the end of every trading day. The DSP will be reckoned for marking to market all open positions.

Final Settlement Prices

The Final Settlement Price (FSP) will be determined by the Exchange upon maturity of the contract. All open positions on the expiry day of the contract would result in compulsory delivery.

The Final Settlement Price (FSP) shall be arrived at by taking the average of the last three days' spot prices. The last spot price for the day as polled by the Exchange during the last three days shall be taken for arriving at the FSP. In the event of unavailability of the spot prices during any one of the last three days excluding the expiry day (i.e., on E - 1 or E - 2), the spot price of the previous day (E - 3) shall be considered for the average of the last three days. In case spot prices are not available during the 3 day period prior to the expiry date, the last spot price of the expiry day shall be considered for arriving at the FSP.

Spot Prices

NCDEX will announce/ disseminate spot prices for Rapeseed-Mustard seed relating to the designated delivery center and specified grade/ quality parameters determined through the process of polling a set of market participants representing different segments of the value chain.

The polled prices shall be input to a normalizing algorithm (like 'bootstrapping' technique) to arrive at a representative, unbiased and clean 'benchmark' spot price for Rapeseed-Mustard seed. The security of data and randomness of polling process will ensure transparency and correctness of prices. The Exchange has absolute right to modify the process of determination of spot prices at any time without notice.

Dissemination of Spot Prices

Spot prices for Rapeseed-Mustard seed will be disseminated on daily basis.

Pay in and Pay out for Daily Settlement

The table below illustrates timings for pay in and pay out in case of daily settlement. The buyer clients would have to deposit requisite funds with their respective Clearing Member before "pay in".

All fund debits and credits for the Member would be done in the Member's Settlement Account with the Clearing bank.

Time (T+1)	Activity
On or before 11.00 hrs	PAYIN - Debit paying member a/c for funds
After 13.00 hrs	PAYOUT - Credit receiving member a/c for funds

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Pay in and Pay out for final physical settlement

The table below illustrates timings for pay in and pay out in case of positions marked for physical settlement. The buyers / sellers would have to deposit requisite funds / Rapeseed-Mustard seed with their respective Clearing member before "pay in".

Pay in and Pay out for Final Settlement in case of physical deliveries	
Time (E+2)	Activity
On or before 12.00 hrs	PAYIN - Debit Buyer Member Settlement a/c for funds - Debit Seller Member's CM Pool Account for Rapeseed-Mustard seed
After 14.30 hrs	PAYOUT - Credit Seller Member Settlement a/c for funds - Credit Buyer Member's CM Pool Account for Rapeseed-Mustard seed

Additionally the supplemental settlement for Rapeseed-Mustard seed futures contracts for premium / discount adjustments relating to quality of Rapeseed-Mustard seed delivered, actual quantity delivered and close out for shortages, will also be conducted on the same day. Clearing Members are required to maintain adequate fund balances in their respective accounts.

Pay in and Pay out for supplemental settlement	
Time (E + 2)	Activity
On or before 15.00 hours	PAY IN - Debit Member Settlement a/c for funds
After 15.00 hours	PAY OUT – Credit Member Settlement a/c for funds

Supplementary Settlement for Taxes

The Exchange will conduct a separate supplementary settlement, as illustrated below, three days after normal pay out for completion of tax transactions.

In order to facilitate issue of invoice to right parties, the buyer Clearing Members are required to give the buyer client details to the Exchange latest by 15.00 hrs on E+3 day failing which the buying member is considered as the end buyer and accordingly invoice is issued in his/their name.

The Seller Clearing Members are required to give the seller client details to the exchange latest by 15.00 hrs on E + 4 day.

The amounts due to the above differences will be debited / credited to Member's clearing bank account similar to normal settlement.

Pay in and Pay out for Taxes	
Time (E + 5)	Activity
On or before 11.00 hours	PAY IN: Debit Buyer Member Settlement a/c for funds.
After 11.00 hours	PAY OUT: Credit Seller Member Settlement a/c for funds

For further clarification and detailed procedure on sales tax settlement, participants can refer to circular number NCDEX/CLEARING-001/2008/002 issued on January 04, 2008.

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Exhibit 1 – CONTRACT SPECIFICATIONS OF RAPESEED-MUSTARD SEED

Applicable for contracts expiring in April 2011 and thereafter
(Updated on January 7, 2011)

Trading system	NCDEX Trading System
Type of contract	Futures Contract
Name of commodity	Rapeseed-Mustard seed
Ticker symbol	RMSEED
Basis	Ex-warehouse Jaipur, exclusive of sales taxes/VAT
Unit of trading	10 MT
Delivery unit	10 MT
Quotation/base value	Rs. per Quintal
Tick size	Re. 1
Quality Specification	Moisture content : 5% (basis) Oil Content (at 5% moisture content level): 42% (basis) FFA%: 1.5 (max) Foreign Matter: 0.25% (basis)
Quantity variation	+/- 2%
Delivery centre	Jaipur (up to the radius of 50 km from the municipal limits)
Additional delivery centres	Alwar (Rajasthan), Kota (Rajasthan), Sri Ganganagar (Rajasthan), Bikaner (Rajasthan), Hapur (Uttar Pradesh) & Agra (Uttar Pradesh) (At all centers, up to the radius of 50 km from the municipal limits) (Premium/discount for all centres will be announced at the time of launching a contract)
Trading hours	As per directions of the Forward Markets Commission from time to time, currently - Mondays through Fridays: 10:00 a. m. to 05:00p.m. Saturdays: 10.00 a.m. to 2.00 p.m. The Exchange may vary the above timing with due notice.
Due date/Expiry date	20th day of the delivery month If 20th happens to be a holiday, a Saturday or a Sunday then the due date shall be the immediately preceding trading day of the Exchange

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Delivery specification	<p>Upon expiry of the contract all outstanding positions will result in delivery.</p> <p>The penalty structure for failure to meet delivery obligations will be as per circular no. NCDEX/TRADING-086/2008/216 dated September 16, 2008.</p>
Delivery Logic	Compulsory Delivery
Closing of contract	Upon the expiry of contract all outstanding open positions would result in physical delivery
Opening of contracts	Trading in any contract month will open on the 10th day of the month. If the 10th day happens to be a non-trading day, contracts would open on the next trading day
No. of active contracts	As per launch calendar
Price limits	<p>Daily price fluctuation limit is (+/-) 3%. If the trade hits the prescribed daily price limit there will be a cooling off period for 15 minutes. Trade will be allowed during this cooling off period within the price band. Thereafter the price band would be raised by (+ / -) 1% and trade will be resumed. If the price again hits the revised price band (4%) during the day, trade will only be allowed within the revised price band. No trade / order shall be permitted during the day beyond the revised limit of (+ / -) 4%</p>
<p>Position limits (for all Rapeseed- Mustard Seed contracts combined together)</p>	<p>Member-wise: 60,000 MT or 15% of Market open interest whichever is higher</p> <p>Client-wise : 20,000 MT</p> <p>The above limits will not apply to bona fide hedgers. For bona fide hedgers, the Exchange will, on a case to case basis, decide the hedge limits. Please refer to Circular No. NCDEX/TRADING-100/2005/219 dated October 20, 2005.</p> <p>For near month contracts : The following limits would be applicable from 28 days prior to expiry date of a contract</p> <p>Member: 18,000 MT or 15% of the market-wide near month open position, whichever is higher Client: 6,000 MT</p>

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Premium/Discount	<p>Quality delivery with variation shall be acceptable with premium/discount as under:</p> <p>Moisture:</p> <ul style="list-style-type: none"> • From 5% to 6.5% accepted at 1:1 discount or part there of • Above 6.5% rejected <p>Oil Content:</p> <ul style="list-style-type: none"> • From 42% to 37% accepted at 1:1 discount or part there of • More than 42% accepted at 1:1 premium or part there of • Below 37% rejected <p>Foreign matter:</p> <ul style="list-style-type: none"> • From 0.25% to 2% accepted at 1:1 discount or part there of • Above 2% rejected • Free from non-edible seeds such as Mahuas, Castor, Neem, Taramira and Argemone seeds. Should be free from any foul odor.
Final Settlement Price	<p>The Final Settlement Price (FSP) shall be arrived at by taking the average of the last three days' spot prices. The last spot price for the day as polled by the Exchange during the last three days shall be taken for arriving at the FSP. In the event of unavailability of the spot prices during any one of the last three days excluding the expiry day (i.e., on E - 1 or E - 2), the spot price of the previous day (E - 3) shall be considered for the average of the last three days. In case spot prices are not available during the 3 day period prior to the expiry date, the last spot price of the expiry day shall be considered for arriving at the FSP.</p>

Tolerance limit of RAPESEED MUSTARD SEED

Commodity Specifications	Basis	Acceptable quality range as per contract specification	Permissible Tolerance
Moisture content	5% (basis)	From 5% to 6.5% accepted at 1:1 discount or part thereof, Above 6.5 % rejected	
Oil Content (at 5% moisture content level)	42% (basis)	42% delivery at par From 42% to 37% accepted at 1:1 discount or part thereof, More than 42% accepted at 1:1 premium or part thereof, Below 37% rejected	+/-0.50%
FFA	1.5% (max)		

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Foreign Matter	0.25% (basis)	From 0.25% to 2% accepted at 1:1 discount or part thereof, Above 2 % rejected	+/-0.25%
Max Tolerance (for all characteristics)			+/- 0.50%

Note: Tolerance limit is applicable only for outbound deliveries. Variation in quality parameters within the prescribed tolerance limit as above will be treated as good delivery when members/clients lift the materials from warehouse. These permissible variations shall be based on the parameters found as per the immediate preceding test certificate given by NCDEX approved assayer.

Annexure A: Contract Launch Calendar

Contract Launch Month	Contract Expiry Month
November 2010	April 2011, May 2011
December 2010	June 2011
January 2011	July 2011
February 2011	No Launch
March 2011	No Launch
April 2011	August 2011
May 2011	September 2011
June 2011	October 2011
July 2011	November 2011
August 2011	December 2011

Exhibit 2 - Warehouse & Assayer Details

Warehouse Details	Assayer Details
<p>JICSSHRESHAKUN-ALWAR JICS LOGISTICS C/O SHREE SHAKUN OIL MILL, ITARANA ROAD, NEAR RAJASTHAN PATRIKA, OLD INDUSTRIAL AREA, ALWAR-301001, RAJASTHAN</p> <p>CONTACT PERSONS: MR. GOVIND SABOO MOBILE: 09324246515 MR. DHANPAT SINGH MOBILE: 09351909034</p>	<p>M/S JICS LABORATORIES 13-B, SECTOR A, SANVER ROAD, INDORE - 452015 MADHYA PRADESH.</p> <p>CONTACT PERSON: MR. ANIL JHAWAR; MOBILE: 09893025380</p>
<p>LTCRANGOLI-BIKANER LTC COMMERCIAL COMPANY PVT. LTD. C/O RANGOLI CEREMICS LTD. CHAK GARBI, KANSAR ROAD, LALGARH BIKANER - 334005 RAJASTHAN</p> <p>CONTACT PERSONS: MR. RAJESH SARASWAT MOBILE: 09414142357 MR. RAMESH KUMAR MOBILE: 09414142356</p>	<p>LTC COMMERCIAL COMPANY PRIVATE LIMITED (TESTING & CERTIFYING DIVISION) SAMATA NAGAR, BIKANER-334 002, RAJASTHAN INDIA</p> <p>CONTACT PERSONS: MR. RAMPAL SARASWAT MOBILE: 09413380521 MR. B.L. SWAMI MOBILE: 09413380520</p>
<p>DRAMINRADHAMADHAV-KOTA DR. AMIN CONTROLLERS PVT LTD. C/O. RADHA MADHAV INDUSTRIES COMPARTMENT NO. 2, VILLAGE ARAMPURA, KHAITON ROAD, KOTA- 325003, RAJASTHAN.</p> <p>CONTACT PERSON: MR. BHARTENDRA SINGH MOBILE: 09414064650</p>	<p>DR. AMIN CONTROLLERS PVT. LTD. 17/18 MAHINDER CHAMBERS, W.T. PATIL MARG, CHEMBUR, MUMBAI - 400071, MAHARASHTRA.</p> <p>CONTACT PERSONS: MR. SIDDHARTH R AMIN MOBILE: 098201 91524; MR. CHETAN SHAH MOBILE: 098200 69758; TEL: 022 - 25219301/2/3/4/5/6/7/8 FAX: 022 - 25219309/10 E-MAIL: mumbai@rcaindia.com</p>
<p>NCMSGW-SRIGANGANAGAR NCMSL COMMODITY MULTILINK POINT, C/O. GODARA'S WAREHOUSING CO. ABOHAR BY PASS HANUMANGARH ROAD, SRIGANGANAGAR-355001, RAJASTHAN.</p> <p>CONTACT PERSONS: MR. RAM SINGH CHOHAN MOBILE: 09309407514 ram.c@ncmsl.com MR. TRIBHUWAN BORA MOBILE: 09302001190</p>	<p>NATIONAL COLLATERAL MANAGEMENT SERVICES LIMITED (TESTING & CERTIFYING DIVISION) 4-7-18/6B, NACHARAM, RAGHAVENDRA NAGAR HYDERABAD- 500 076, ANDHRA PRADESH</p> <p>CONTACT PERSONS: DR. GANESH RAMAMURTHI: MOBILE - 09347782507 MR. P. SRINIVAS: MOBILE: 09347782508 TEL: 040-32939701</p>

For more information & the updated list of Warehouse & Assayers kindly refer to the NCDEX Website http://www.ncdex.com/ClearingServices/Clearing_Services_others.aspx

Exhibit 3 - Good / Bad delivery norms

No.	Particulars	Good / Bad delivery
1.	Quality not meeting futures contract specification.	Bad delivery
2.	Delivery at non accredited warehouse.	Bad delivery
3.	Delivery completed but without sampling & testing / certification/ expired validity.	Bad delivery
4.	Delivery without weight certificate.	Bad delivery
5.	Weighed at other than recognized by accredited warehouse/ weigh bridge/ weigh scale	Bad delivery
6.	When sample is not drawn as per sampling norms and not carried out at the time of unloading	Bad delivery
7.	Delivery not as per the packaging specification	Bad delivery
8.	Delivery found contaminated on visual inspection	Bad delivery

Exhibit 4 – Specimen of Rapeseed-Mustard seed Testing Report

CERTIFICATE OF QUANTITY & QUALITY			
Date : _____		Report no.:	
NCDEX Member :			
Commodity :			
Lorry No. :			
Warehouse details:			
Lot no.:			
<p>1) QUANTITY : This is to certify that National Commodity & Derivative Exchange Ltd. (NCDEX) member / constituent _____ has delivered _____ Metric Tons (MT) Gross of Rapeseed-Mustard seed at the NCDEX accredited warehouse:</p> <p>The weight / tonnage of material delivered is as per weigh bridge / weigh scale in the premises of the accredited warehouse.</p>			
<p>2) QUALITY :</p> <p>The results of analysis performed by our laboratory of the samples collected by WH _____ is stated below :</p>			
Test Items	Test method	Specification	Test results
<p>The material delivered by the above NCDEX Member is in accordance with the specification provided bearing grade _____ and valid up to _____.</p> <p>The goods delivered may be accepted / rejected.</p>			
Chief Inspector / Authorized Signatory			